

- 1

SHOW CURVE DATA ON EACH SHEET THAT THE CURVE IS ON, SUCH THAT EACH SHEET STANDS ON ITS OWN.
- 2

BREAK OUT QUANTITIES PER INTERSECTION.
- 3

WHENEVER POSSIBLE, WITH A LOT OF DRIVEWAYS, SEWERS OR GUARDRAIL, USE DRIVEWAY SUMMARY TABLES, DRAINAGE SUMMARY TABLES OR GUARDRAIL SUMMARY TABLES. THE TOTALS IN THE TABLES SHOULD BE ENTERED INTO TRANSPORT. DO NOT DUPLICATE QUANTITIES IN TABLES INTO "MAINLINE ROADWAY QUANTITIES THIS SHEET". IF QUANTITIES ARE IN TABLE, NEED TO MATCH EXACT PAY ITEMS.
- 4

SHOW MAINLINE ROADWAY QUANTITIES THIS SHEET IN THE LOWER RIGHT HAND CORNER IF POSSIBLE FOR ALL QUANTITIES NOT BROKEN DOWN IN INDIVIDUAL BREAKOUTS OR QUANTITY BOXES. DO NOT DUPLICATE THE QUANTITIES FOR SEWERS/DRIVEWAYS IN THIS AREA.
- 5

SHOW EXISTING AND PROPOSED DRAINAGE WITH SIZES AND FLOW ARROWS. SHOW FLOW ARROWS IN DITCHES.
- 6

PROPOSED WATERMAIN QUANTITIES MAY BE SHOWN ON SEPARATE WATERMAIN SHEETS FOR CLARITY.
- 7

SHOW ALL EXISTING AND PROPOSED ROW INCLUDING CROSS ROAD ROW.
- 8

SHOW ALL PROPOSED CURB AND GUTTER, DRIVEWAYS, INTERSECTIONS, SIDEWALKS AND SLOPE STAKE LINES.
- 9

SHOW ALL EXISTING UNDERGROUND UTILITIES. LABEL UNDERGROUND GAS AND ELECTRIC WITH

HAZARDOUS OR
FLAMMABLE MATERIAL

LABEL UNDERGROUND TELEPHONE, WATER TRANSMISSION LINES AND FIBER OPTICS WITH

CAUTION – CRITICAL
UNDERGROUND UTILITY

EX WATER, SEWER, SANITARY SEWER/SANITARY FORCE MAIN ONLY NEED TO BE LABELED WITHOUT FLAGGING OF A CRITICAL UNDERGROUND UTILITY BOX.

- 10

"MAINLINE REMOVAL QUANTITIES THIS SHEET" SHOULD APPEAR IN THE LOWER RIGHT CORNER OF THE SHEET IF POSSIBLE AND SHOULD NEVER INCLUDE PAY ITEMS THAT ARE SHOWN IN OTHER NOTES ON THE SHEET.
- 11

STREET NAMES SHOULD APPEAR INSIDE OF HEAVY BORDER LINES.
- 12

ROUTE AND STATION LIMITS SHOWN HERE.
- 13

CROSS HATCH OUT REMOVAL ITEMS AND SHOW

R

 AND

A

 SYMBOLS.
- 14

NUMBER PROPOSED DRAINAGE STRUCTURES. ONCE THE DESIGN IS FINALIZED, NUMBERING DRAINAGE STRUCTURES BEGINNING WITH

1

 ON THE FIRST PLAN SHEET AND NUMBERING SEQUENTIALLY. ADDITIONAL CATCH BASINS ADDED LATE IN THE DESIGN MAY BE INSERTED, FOR EXAMPLE AS

32A

 , PLACED NEAR THE CATCH BASIN NUMBERED

32

 .
- 15

AERIAL ELECTRIC AND CATV MAY BE SHOWN CONNECTING TO POLES. ALWAYS SHOW OVERHEAD HIGH VOLTAGE TRANSMISSION LINES.
- 16

SHOW EROSION CONTROL ITEMS ON PLANS WITH QUANTITIES IN A BOX.
- 17

SHOW ONLY PROP SHOULDERS ON 20 & 40 SCALE PLANS. DO NOT SHOW PROP PAVED SHOULDERS ON 50 OR 100 SCALE PLANS. EXISTING GRAVEL SHOULDERS SHOULD BE SHOWN ON 20, 40 & 50 SCALE PLANS.

OTHER GUIDELINES:

- PLAN SHEETS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING
- A.

CITY LIMITS
- B.

TOWNSHIP, RANGE AND SECTION
- C.

EXISTING ALIGNMENT DATA:

1.

COORDINATES

2.

BEARINGS

3.

SUPERELEVATION DATA (EXISTING AND PROPOSED)

4.

TIES AT CROSSROADS & SECTION LINES
- D.

EXISTING PAVEMENT DESCRIPTION INCLUDING WIDTH AND TYPE
- E.

HOUSE NUMBERS AND CURRENT BUSINESS NAME ON URBAN PROJECTS
- F.

PROPERTY OWNERS NAMES OR HOUSE NUMBERS ON RURAL PROJECTS
- G.

EXISTING DRAINAGE, INDICATE SIZE, FLOW AND TYPE OF ALL EXISTING CULVERTS AND SEWERS
- H.

PAY ITEMS AND LEADERS TO SPECIFIC WORK TYPES
- I.

INCLUDE EXTRA COLUMNS IN THE PAY ITEM AREAS FOR ACT 51 PARTICIPATION OR 100% CITY WORK. IDENTIFY CATEGORY NUMBERS.

- 1

SHOW EXISTING SEWERS AND PIPES AS DASHED LINE CODES AND PROPOSED SEWERS AND PIPES AS SOLID LINE CODES AS PER DRAFTING GUIDES. USE THE DRAINAGE STRUCTURE TUTORIAL UNDER 'MICROSTATION/MDOT/ROAD/DRAINAGE STRUCTURE' TO DRAFT THE CULVERTS, SEWERS, AND DRAINAGE STRUCTURES. LABEL PROPOSED GRADES AS +% OR -% IN THE DIRECTION OF STATIONING.
- 2

SHOW EXISTING GROUND PROFILE AS DASHED LINE AND GROUND POINTS - SIDE PROFILES.
- 3

SHOW TOP OF CURB GRADE OR PROFILES TO NEAREST 0.01%.
- 4

SHOW EXISTING AND PROPOSED FLOW LINE ELEVATIONS TO THE NEAREST 0.01 FT.
- 5

SHOW PLAN, DITCH AND SEWER GRADES AS +% OR -% IN THE DIRECTION OF STATIONING.
- 6

SHOW TYPE LINES INDICATING CURB AND GUTTER TYPE, MEDIAN BARRIER, DITCHES WITH DITCH WIDTH FRONT SLOPE AND BACK SLOPE. NOTE: DEPENDENT DITCHES ARE DESCRIBED AS DEPTH X WIDTH ROUND BOTTOM DITCH. DEPENDENT DITCHES LOCATED IN SUPER ELEVATED SECTIONS ARE DESCRIBED AS DEPTH (+ OR - SUPER) X WIDTH ROUND BOTTOM DITCH. INDEPENDENT DITCHES ARE DESCRIBED BY INDEPENDENT WIDTH ROUND BOTTOM DITCH AND MUST HAVE A GRADE AND ELEVATION SHOWN ON THE PROFILE.
- 7

SHOW LOCATION OF SUPER ELEVATION INCLUDING TRANSITION AND CROWN RUNOFF LOCATIONS.
- 8

NUMBER PROPOSED DRAINAGE STRUCTURES.
- 9

SHOW EROSION CONTROL ITEMS THAT APPLY ON THE PROFILE SHEET.

OTHER GUIDELINES:

- A. SHOW VERTICAL PI STATIONS, CURVE LENGTHS, TANGENT GRADES, LOW POINTS, K VALUES.
- B. SHOW ROCK, PEAT, MUCK AND UNDERCUT LIMITS AND TREATMENTS.
- C. SHOW CROSSROAD OR STREET PROFILES, IF PERTINENT.
- D. SHOW ANY TEMPORARY ROADS IN PROJECT LIMITS.
- E. SHOW WATER TABLE ELEVATIONS.
- F. EARTHWORK QUANTITIES ARE SHOWN ON PROFILES.
- G. SHOW EXISTING UNDERGROUND FIELD TILE IF APPLICABLE.
- H. SHOW PROPOSED OR EXISTING BRIDGE PROFILE IF APPLICABLE & UNDERCLEARANCES.
- I. SHOW PROPOSED OR EXISTING BOX/SLAB CULVERT IF APPLICABLE.
- J. EXISTING UNDERGROUND UTILITY INFORMATION SHOULD BE SHOWN ON THE PROFILE IN AREAS OF POTENTIAL CONFLICT WITH PROPOSED UNDERGROUND WORK. ACTUAL OR APPROXIMATE TOP OF WATER MAIN AND TELEPHONE ELEVATIONS SHOULD BE LABELED. APPROXIMATE OR ACTUAL CENTER OF GAS MAIN SHOULD BE LABELED. DRAW EXISTING UTILITY TO SCALE SUCH AS A TELEPHONE DUCT OR OUTSIDE DIMENSIONS OF SEWERS/WATER MAINS ON THE PROFILE ESPECIALLY IN AREAS OF POTENTIAL CONFLICT WITH PROPOSED UNDERGROUND CONSTRUCTION.
- K. SHOW EARTHWORK, SUBBASE, PEAT EXC & SWAMP BACKFILL QUANTITIES ON PROFILE SHEETS. PLACE FOR INFORMATION ONLY THE CYDS OF TOPSOIL STRIPPING. SWAMP BACKFILL IS A LOOSE MEASURE PAY ITEM AND NEEDS INCREASED BY A PERCENTAGE FOR SHRINKAGE. THE METHOD OF PEAT EXC SHOULD BE SHOWN ON THE PLANS AS DEPICTED IN STD PLAN R-103 SERIES. SWAMP BACKFILL AND PEAT EXCAVATION ARE CALCULATED BASED UPON PLOTTING MUCK BORINGS ON THE CROSS SECTIONS AND EXCAVATING PEAT AND BACKFILLING WITH SWAMP BACKFILL AS SHOWN ON STD PLAN R-103 SERIES.

PROFILE SHEETS

FINAL R.O.W.			
AUTH	DATE	NO.	REVISION

LEWIS STREET REMOVE QUANTITIES

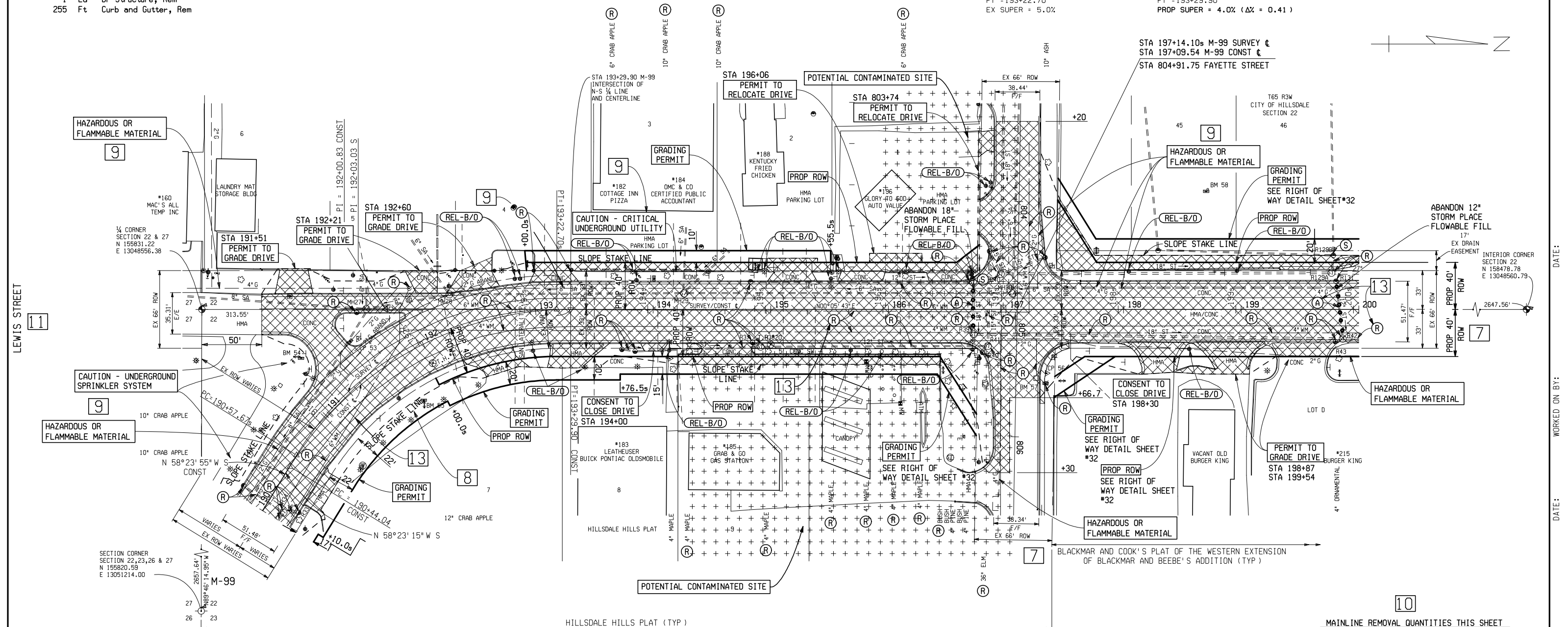
731	Syd	Pavt, Rem
1	Ea	Hydrant, Rem
1	Ea	Dr Structure, Rem
255	Ft	Curb and Gutter, Rem

2

CURVE DATA	
M-99 SURVEY CENTER LINE	
Δ = 58°28' 58"	
D = 22°03' 59.56"	
T = 145.36'	
L = 265.03'	
R = 259.63'	
E = 37.92'	
PC = 190+57.67	
PI = 192+03.03	
PT = 193+22.70	
EX SUPER = 5.0%	

1

CURVE DATA	
M-99 CONSTRUCTION CENTER LINE	
Δ = 58°29' 38"	
D = 20°27' 46"	
T = 156.79'	
L = 285.86'	
R = 280.00'	
E = 40.91'	
PC = 190+44.04	
PI = 192+00.83	
PT = 193+29.90	
PROP SUPER = 4.0% (ΔX = 0.41)	



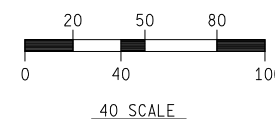
FAYETTE STREET REMOVE QUANTITIES

1060	Syd	Pavt, Rem
1	Ea	Tree, Rem, 19 inch to 36 inch
1	Ea	Hydrant, Rem
6	Ea	Dr Structure, Rem
72	Ft	Sewer, Rem, Less than 24 inch
440	Ft	Curb and Gutter, Rem
27	Syd	Sidewalk, Rem

2

MAINLINE REMOVAL QUANTITIES THIS SHEET

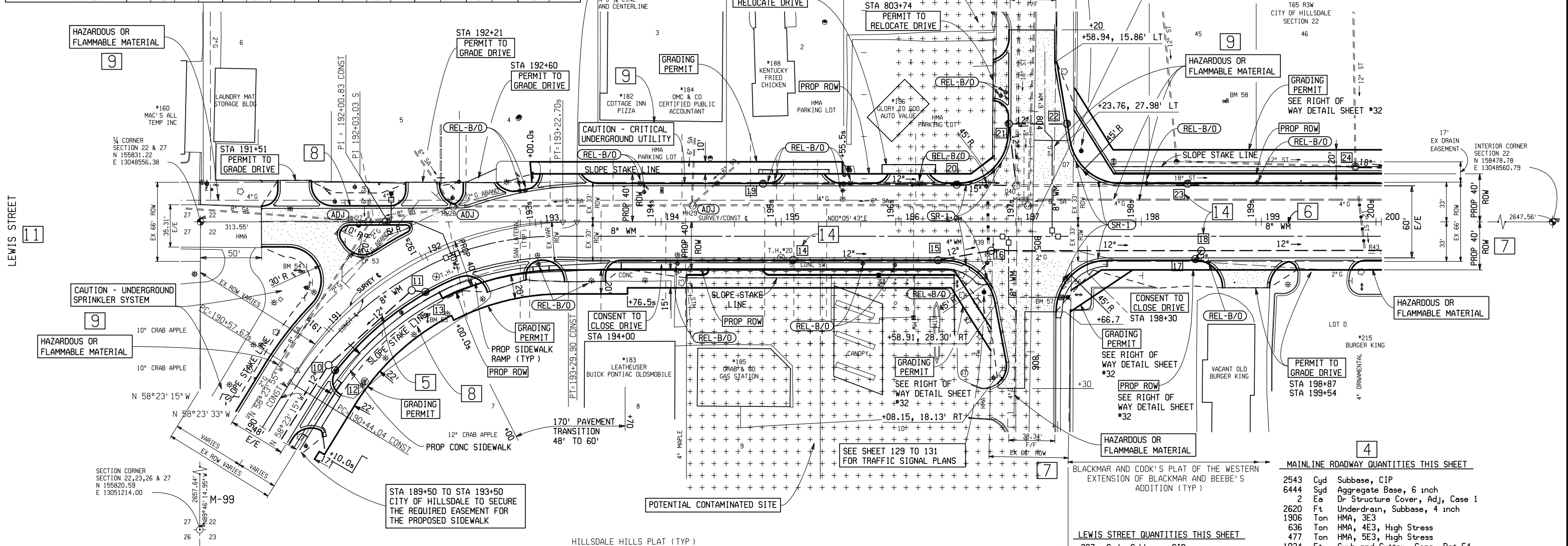
7794	Syd	Pavt, Rem
4	Ea	Tree, Rem, 6 inch to 18 inch
13	Ea	Dr Structure, Rem
5	Cyd	Flowable Fill
749	Ft	Sewer, Rem, Less than 24 inch
272	Ft	Curb and Gutter, Rem
230	Ft	Curb, Rem
93	Syd	Sidewalk, Rem



12 M-99 STA 190+00 TO STA 200+00				
DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
04/06/07				R.O.W CONST.

DATE: WORKED ON BY: CHECKED BY: FILE NAME:

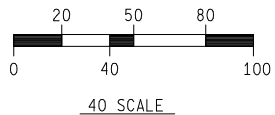
9 DRAINAGE SUMMARY																			
STRUCT NUMBER	STATION	Dr Structure, -- inch Dia				Dr Structure, Add Depth				Sewer, C/A, -- inch, Tr Det B				Dr Structure Cover		Dr Structure, Tap, -- inch		Erosion Control, Inlet Protection,	
		24	48	60	72	24	48	60	72	12	18	30	36	TYPE	Lb	12	15	39A	39B
		Ea	Ea	Ea	Ea	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft			Ea	Ea	Ea	Ea
14																			
12	190+75 25.5' RT	-	1	-	-	-	-	-	-	8	-	-	-	K	500	-	-	-	1
13	191+85 25.5' RT	-	1	-	-	-	-	-	-	12	-	-	-	K	500	-	-	-	1
14	195+10 25.5' RT	-	1	-	-	-	-	-	-	120	-	-	-	K	500	-	-	-	1
15	196+30 25.5' RT	-	1	-	-	-	-	-	-	43	-	-	-	K	500	-	-	-	1
16	196+72 22.0' RT	-	1	-	-	-	1.5	-	-	-	-	-	-	B	350	-	-	1	-
17	198+40 25.5' RT	-	1	-	-	-	-	-	-	10	-	-	-	K	500	-	-	-	1
18	198+50 24.0 RT	-	1	-	-	-	-	-	-	-	175	-	-	B	350	-	-	-	-
19	194+85 31.5' LT	-	1	-	-	-	-	-	-	160	-	-	-	K	500	-	-	-	1
20	196+43 31.5' LT	-	1	-	-	-	-	-	-	53	-	-	-	K	500	-	-	1	1
21	196+90 81.5' LT	-	1	-	-	-	-	-	-	47	-	-	-	K	500	-	-	-	1
22	197+38 81.5' LT	-	1	-	-	-	-	-	-	47	-	-	-	K	500	-	-	-	1
23	198+40 31.5' LT	-	1	-	-	-	1.0	-	-	-	-	20	-	K	500	-	-	-	1
EX 040	196+96 30.0' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTALS	-	12	-	-	-	2.5	-	-	880	175	20	-	-	5700	2	-	2	10



* FOR INFORMATION ONLY, NOT A PAY ITEM										DRIVEWAY SUMMARY											
		DRIVEWAY OPENING, CONC			DRIVEWAY APPROACHES															3	
STATION	WIDTH AT SWK*	* Det L	Detail M	DISTANCE FROM BOC TO MATCH*	ENTERING RADIUS *	EXITING RADIUS *	Approach,		HMA Approach	Driveway, Nonrein, Conc		Curb and Gutter Conc Det F4		Curb, Conc, Det E2	Sidewalk, Conc,		DRIVEWAY SLOPE				
	Ft	Ft	Ft	Ft	Ft	Ft	CI I	CI II	Ton	6 inch	8 inch	Syd	Syd	Ft	Ft	6 inch	8 inch	APPROACH	DRIVEWAY		
							Syd	Ton	Ton	Syd	Syd					Sft	Sft	Percent	Percent		
190+40, RT	-	-	67	15.55	20	15	-	-	-	-	65	33	4	-	-	-	-	1.4	-		
191+51, LT	-	-	59	21.36	20	15	-	-	-	-	66	41	-	-	-	-	-	10.0	-		
192+24, LT	-	-	53	19.55	20	15	-	-	-	-	62	38	-	-	-	-	-	3.7	-		
192+59, RT	-	-	69	17.6	20	15	-	-	-	-	95	33	-	-	-	-	-	1.5	-		
192+60, LT	-	-	54	15	20	15	-	-	-	-	50	30	-	-	-	-	-	2.0 (5')	-4.0		
193+18, LT	-	-	60	9.05	20	15	-	-	-	-	36	17	-	-	-	-	-	-4.4	-		
193+32, RT	-	-	66	17.73	20	15	-	-	-	-	70	35	-	-	-	-	-	1.6	-		
194+62, RT	45	49	-	14.67	-	-	42	-	14	-	11	-	-	15	-	-	282	4.0/2.0	4.6/2.0		
195+18, LT	-	-	62	11.59	20	15	17	-	6	-	32	14	-	-	-	-	-	10.0	-		
196+06, LT	-	-	62	15.68	20	15	38	-	13	-	32	14	-	-	-	-	-	10.0	10.0		
198+87, RT	-	-	85	23.00	25	25	111	-	37	-	-	48	-	-	-	-	-	2.0 (10')	-3.5		
199+54, RT	-	-	64	31.81	20	15	-	-	-	-	40	20	-	-	-	-	-	2.0	-		
803+74, RT	-	-	64	13.00	20	15	52	-	17	-	-	25	-	-	-	-	-	8.0	-		
TOTALS			770				667	-	222	-	303	414	19	-	-	282	-	-	-		

SANITARY SEWER LATERALS AND
STORM SEWER LATERALS ARE SHOWN
FOR INFORMATION ONLY AND REPRESENT
THEIR APPROXIMATE LOCATION, ADDITIONAL
LATERALS MAY BE ENCOUNTERED.

PROPOSED WATER SERVICES SHALL BE PROVIDED FOR ALL EXISTING WATER SERVICES. THE COST OF LOCATING EXISTING WATER SERVICES SHALL BE INCLUDED IN WATER SERV AND WATER SERV, LONG. THE CONTRACTOR SHALL COORDINATE LOCATING EXISTING WATER SERVICES WITH THE CITY OF HILLSDALE BOARD OF PUBLIC UTILITIES.



FAYETTE STREET

CURVE DATA
M-99 SURVEY CENTER LINE
 $\Delta = 58^\circ 28' 58''$
 $D = 22^\circ 03' 59.56''$
 $T = 145.36'$
 $L = 265.03'$
 $R = 259.63'$
 $E = 37.92'$
 $PC = 190+57.67$
 $PI = 192+03.03$
 $PT = 193+22.70$
 $EX \text{ SUPER} = 5.0\%$

CURVE DATA
M-99 CONSTRUCTION CENTER LINE
 $\Delta = 58^\circ 29' 38''$
 $D = 20^\circ 27' 46''$
 $T = 156.79'$
 $L = 285.86'$
 $R = 280.00'$
 $E = 40.91'$
 $PC = 190+44.04$
 $PI = 192+00.83$
 $PT = 193+29.90$
 $PROP \text{ SUPER} = 4.0\% (\Delta X=0.41)$

NOTE:
PROTECT ALL BUILDINGS, TREES, BUSHES, LIGHTPOLES, SIGNS, LANDSCAPING AND CONCRETE STEPS WITHIN THE GRADING LIMIT LINES AND GRADING PERMIT LIMITS UNLESS OTHERWISE INDICATED ON PLANS.

Quantity	Unit	Description
2543	Syd	Subbase, CIP
6444	Syd	Aggregate Base, 6 inch
2	Ea	Dr Structure Cover, Adj, Case 1
2620	Ft	Underdrain, Subbase, 4 inch
1906	Ton	HMA, 3E3
636	Ton	HMA, 4E3, High Stress
477	Ton	HMA, 5E3, High Stress
1024	Ft	Curb and Gutter, Conc, Det F4
200	Ft	Curb, Conc, Det E
1393	Sft	Sidewalk, Conc, 4 inch
520	Sft	Sidewalk Ramp, ADA
2	Ea	Water Main, 6 inch, Cut and Plug
40	Ft	Water Main, DI, 6 inch, Tr Det G
1240	Ft	Water Main, DI, 8 inch, Tr Det G
6	Ea	Gate Valve and Box, 8 inch
2	Ea	Hydrant Assembly
4	Ea	Water Serv
7	Ea	Water Serv, Long
880	Ft	Video Taping Sewer and Culv Pipe, 12 inch
175	Ft	Video Taping Sewer and Culv Pipe, 18 inch
20	Ft	Video Taping Sewer and Culv Pipe, 30 inch
275	Sft	Sidewalk Ramp

LEWIS STREET QUANTITIES THIS SHEET

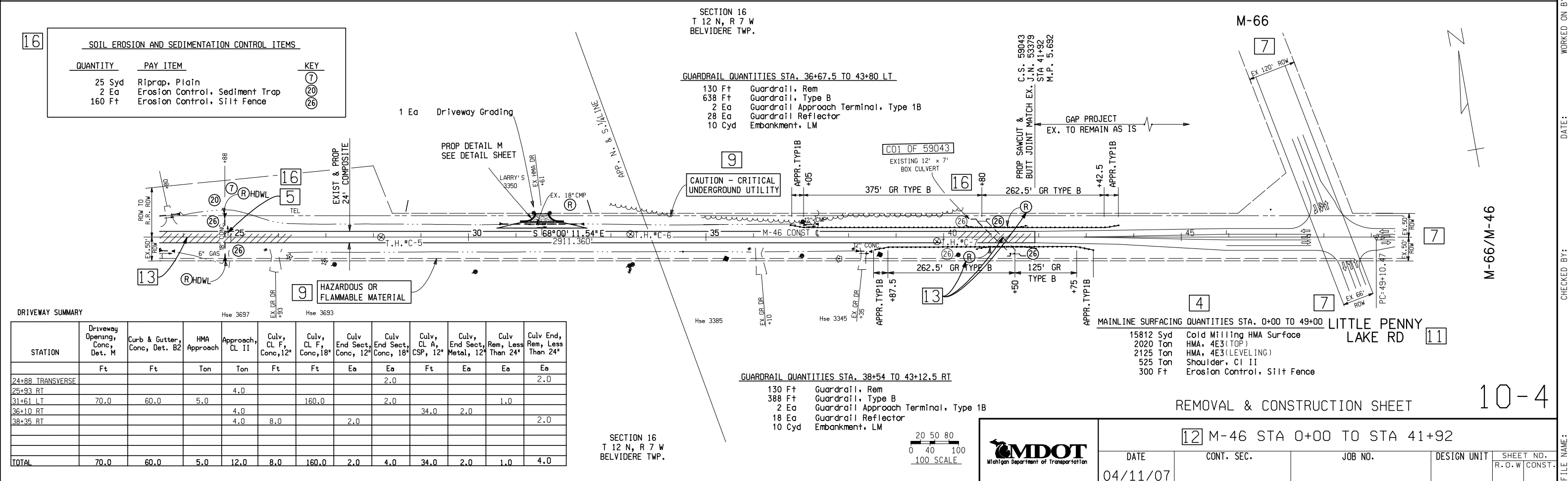
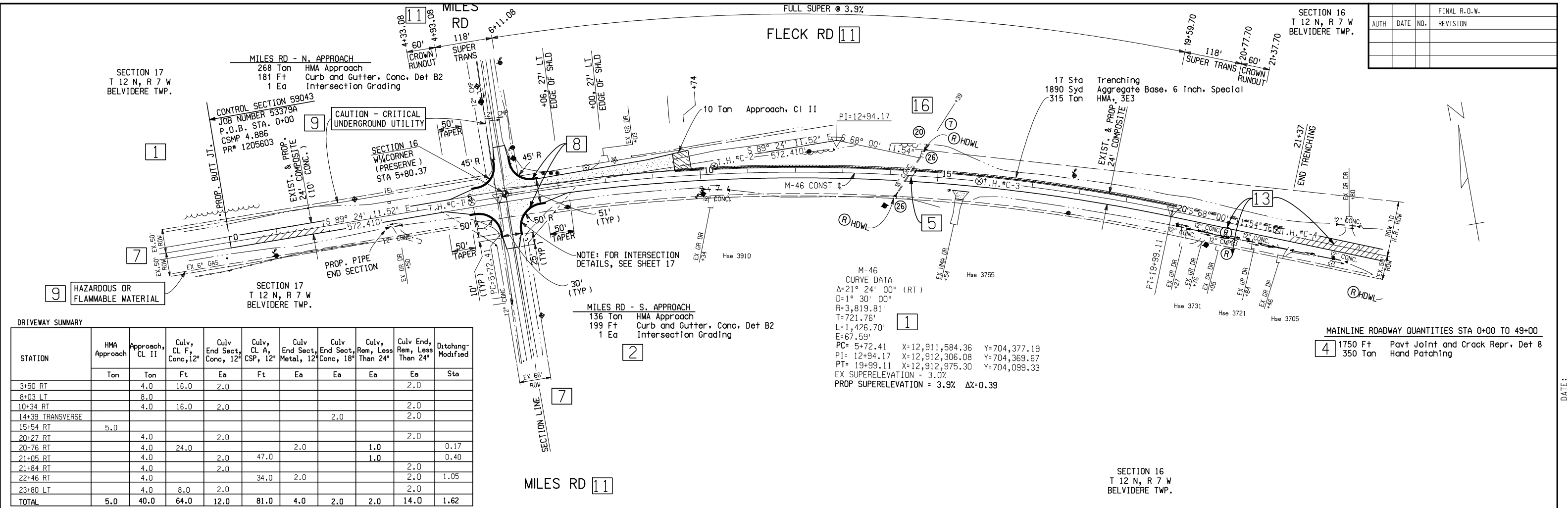
Quantity	Unit	Description
227	Cyd	Subbase, CIP
544	Syd	Aggregate Base, 6 inch
2	Ea	Dr Structure Cover, Adj, Case 1
150	Ton	HMA Approach, 3E3
90	Ton	HMA Approach, High Stress
282	Ft	Curb and Gutter, Conc, Det F4

FAYETTE STREET QUANTITIES THIS SHEET

Quantity	Unit	Description
652	Cyd	Subbase, CIP
1293	Syd	Aggregate Base, 6 inch
1	Ea	Dr Structure Cover, Adj, Case 1
380	Ton	HMA Approach, 3E3
222	Ton	HMA Approach, High Stress
386	Ft	Curb and Gutter, Conc, Det F4

M-99 STA 190+00 TO STA 200+00

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
04/10/07				R.O.W. CONST.



SECTION 5
T2S ,R1W
BLACKMAN TWP

M-50 SURVEY &
DEFLECTION DATA
 $\Delta = 0^\circ 0' 3''$ (LT)
PI=264+33.60
X=13,097,360.71 Y=299,603.86

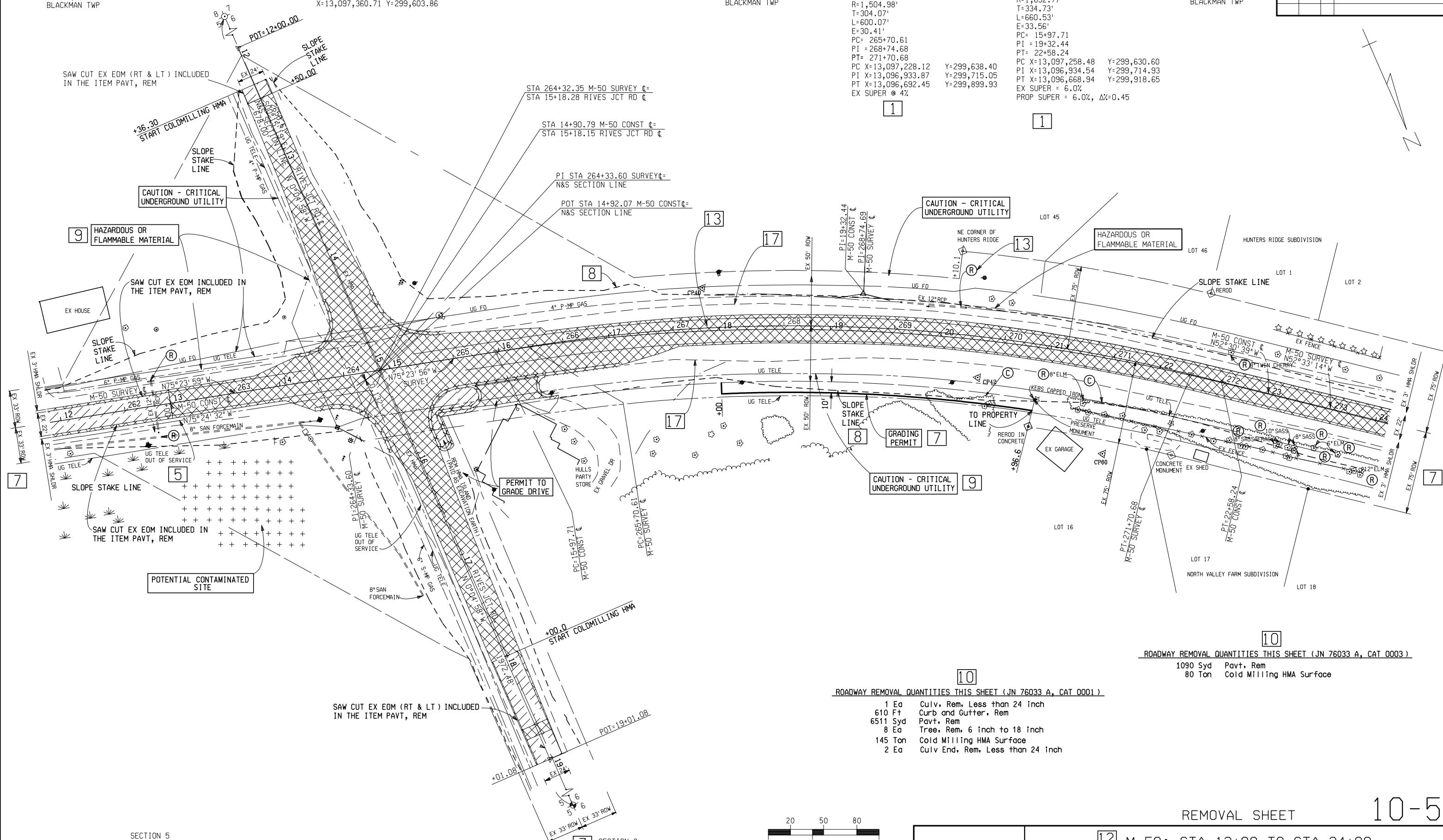
SECTION 6
T2S , R1W
BLACKMAN TWP

M-50 SURVEY C
CURVE DATA
Δ=22° 50' 42" (RT)
D=3° 48' 26"
R=1,504.98'
T=304.07'
L=600.07'
E=30.41'
PC= 265+70.61
PI = 268+74.68
PT= 271+70.68
PC X=13,097,228.12 Y=299,638.40
PI X=13,096,933.87 Y=299,715.05
PT X=13,096,692.45 Y=299,899.93
EX SUPER @ 4%

M-50 CONST C
CURVE DATA
 $\Delta=22^{\circ} 53' 53''$ (RT)
D=3° 28' 00"
R=1,652.77'
T=334.73'
L=660.53'
E=33.56'
PC= 15+97.71
PI = 19+32.44
PT= 22+58.24
PC X=13,097,258.48 Y=299,630.60
PI X=13,096,934.54 Y=299,714.93
PT X=13,096,668.94 Y=299,918.65
EX SUPER = 6.0%
PROP SUPER = 6.0%, $\Delta\lambda=0.45$

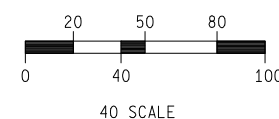
SECTION 6
T2S ,R1W
BLACKMAN TWP

			FINAL R.O.W.
AUTH	DATE	NO.	REVISION



SECTION 5
T2S , R1W
BLACKMAN TWP

7 SECTION 6
T2S , R1W
BLACKMAN TWP
RIVES JUNCT RD. 11



12 M-50: STA 12+00 TO STA 24+00

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
04/11/07				R.O.W CONS

FILE NAME:	CHECKED BY:	DATE:	WORKED ON BY:	DATE:
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SECTION 5
T2S ,R1W
BLACKMAN TWP

RIVES JUNCT RD.

M-50 SURVEY &
DEFLECTION DATA
Δ=0° 0' 3" (LT)
PI=264+33.60
X=13,097,360.71 Y=299,603.86

RIVES JUNCTION RD QUANTITIES (SOUTH)		
JN M60533	JN 76033A (CAT 0003)	
165	Ton	HMA, 4E3, High Stress
261	Ton	HMA, 3E3
202	Ton	HMA Approach, High Stress
1820	Syd	Aggregate Base, 6 inch
70	Ton	Shoulder, CI II
200	Ft	Curb and Gutter, Conc, Det B2
1	Ea	Shoulder Gutter, Conc, Det 2
20	Ft	Spillway, Conc
10	Syd	Riprap, Plain
40	Ft	Underdrain, Subbase, 4 inch

SECTION 6
T2S ,R1W
BLACKMAN TWP

M-50 SURVEY &
CURVE DATA
Δ=22° 50' 42" (RT)
D=3° 48' 26"
R=1,504.98'
T=304.07'
L=600.07'
E=30.41'
PC= 265+70.61
PI = 268+74.68
PT= 271+70.68
PC X=13,097,228.12 Y=299,638.40
PI X=13,096,933.87 Y=299,715.05
PT X=13,096,692.45 Y=299,899.93
EX SUPER @ 2%

M-50 CONST &
CURVE DATA
Δ=22° 53' 53" (RT)
D=3° 28' 00"
R=1,652.77'
T=334.73'
L=660.53'
E=33.56'
PC= 15+97.71
PI = 19+32.44
PT= 22+58.24
PC X=13,097,258.48 Y=299,630.60
PI X=13,096,934.54 Y=299,714.93
PT X=13,096,668.94 Y=299,918.65
EX SUPER = 6.0%
PROP SUPER = 6.0%, ΔX=0.45

FINAL R.O.W.			
AUTH	DATE	NO.	REVISION

CULVERT EXTENSION AND END SECTION
REPLACEMENT AT STA 12+86.02
JN 76033A (CAT 0001)
24 Ft Culv, CI A, 12 inch
1 Ea Culv End Sect, 12 inch

SEE SHEET 25-42
FOR SIGNAL PLANS

CAUTION - CRITICAL
UNDERGROUND UTILITY

HAZARDOUS OR
FLAMMABLE MATERIAL
WORK REQUIRED TO TIE
INTO EXISTING CONC CULV
INCLUDED IN PAYMENT
FOR CULV, CL A 12 INCH

CONC SHLDR
GUTTER SPILLWAY,
RIP RAP, PLAIN

4' RB DITCH
CONC CURB AND
GUTTER B2 (TYP)

CONC SHLDR
GUTTER SPILLWAY,
RIP RAP, PLAIN

HMA PAVED DITCH
W/ RIP RAP, PLAIN

CAUTION - CRITICAL
UNDERGROUND UTILITY

HAZARDOUS OR
FLAMMABLE MATERIAL

HUNTERS RIDGE SUBDIVISION

SLOPE STAKE LINE

UG FO

M-50 CONST &
N52°30'39"W

M-50 SURVEY &
N52°33'14"W

EX FENCE

CONCRETE MONUMENT

EX SHED

LOT 16

LOT 17

NORTH VALLEY FARM SUBDIVISION

LOT 18

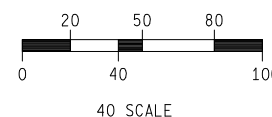
MAINLINE CONSTRUCTION QUANTITIES THIS SHEET

JN M60533	JN 76033A (CAT 0001)	
1198	Ton	HMA, 4E3, High Stress
833	Ton	HMA, 3E3
5657	Syd	Aggregate Base, 6 inch
150	Ton	Shoulder, CI II
2300	Ft	Underdrain, Subbase, 4 inch
150	Ft	Underdrain Outlet, 4 inch
1	Ea	Underdrain, Outlet Ending, 4 inch
14	Syd	Paved Ditch, HMA
671	Ft	HMA Curb - Modified

RIVES JUNCTION RD QUANTITIES (NORTH)

JN M60533	JN 76033A (CAT 0003)	
250	Ton	HMA, 4E3, High Stress
370	Ton	HMA, 3E3
327	Ton	HMA Approach, High Stress
2710	Syd	Aggregate Base, 6 inch
210	Ft	Curb and Gutter, Conc, Det B2
550	Ft	Underdrain, Subbase, 4 inch
60	Ft	Curb, Conc, Det E2
1	Ea	Shoulder Gutter, Conc, Det 2
20	Ft	Spillway, Conc
50	Ton	Hand Patching
70	Ton	Shoulder, CI II
1075	Sft	Sidewalk, Conc, 4 inch
52	Ft	Sewer, CI E, 12 inch
2	Ea	Dr Marker Post
3	Sta	Ditch Cleanout

SECTION 6
T2S ,R1W
BLACKMAN TWP



RIVES JUNCT RD. 11

16

SOIL EROSION AND SEDIMENTATION CONTROL ITEMS

QUANTITY	PAY ITEM	KEY
40 Syd	Riprap, Plain	7
200 Ft	Erosion Control, Silt Fence	26
4 Ea	Erosion Control, Sediment Trap	31
20 Ft	Erosion Control, Permeable Runoff Structure	37A
DITCH BOTTOM PROTECTION		
926 Syd	Mulch Blanket, High Velocity	
436 Syd	Mulch Blanket	

DRIVEWAY APPROACHES(JN 76033 A) (CAT 0001)

STATION	HMA Approach, High Stress* Ton	Approach, CI I Ton	Curb and Gutter, Conc, Det B2 Ft	Curb, Conc, Det E2 Ft	Driveway Opening, Conc, Det M Ft	Const Limits From & Ft
15+97.71 RT	30	51	42	15	80	48
16+23.03 RT**	13	13				30
TOTAL	43	64	42	15	80	

* REFER TO HMA APPLICATION TABLE ON SHEET#2 FOR MIXTURES AND DEPTHS
** LOCATED ON RIVES JUNCTION RD
***PAID FOR UNDER JN M60533

SECTION 5
T2S ,R1W
BLACKMAN TWP



DATE
04/11/07

12 M-50: STA 12+00 TO STA 24+00

CONT. SEC.

JOB NO.

DESIGN UNIT

SHEET NO.

R.O.W CONST.

DATE:

WORKED ON BY:

DATE:

CHECKED BY:

FILE NAME:

CONSTRUCTION SHEET 10-6

